

Introduction

The purpose of this manual is to establish a set of procedures to explain how railroad data for public, private, pedestrian and grade separated rail crossings is collected and entered into the Illinois Railroad Information System (IRRIS) and the U.S. DOT CROSSING INVENTORY FORM (F 6180.71 (11/99)). These procedures will provide up-to-date and accurate data for:

- 1) The National Railroad-Highway Crossing Inventory Data file maintained by the Federal Railroad Administration (FRA).
- 2) Data files maintained by the Illinois Department of Transportation (IDOT).
- 3) Data files maintained by the Illinois Commerce Commission (ICC).
- 4) Data files maintained by each railroad.

The procedures for updating that are set forth in this manual are applicable upon completion of the basic inventory and are used for providing data to the FRA, the ICC and the railroads for maintaining separate files.

What is Collected

Railroad information is collected for all public, private, pedestrian and grade separated rail crossings. For public at-grade crossing only, information for grade crossing location, physical and operational characteristics, and highway information is collected. For private, pedestrian and grade separated crossings, only crossing location data is collected.

ICC, IDOT and railroad companies are responsible for providing information for grade crossing location, and physical and operational characteristics of a crossing. Highway related information is provided by IDOT. Railroad related information is reported by the railroad companies. State agencies and railroad companies verify and revise field observable information.

Although IDOT and ICC maintain separate files, data changes in the railroad databases are shared electronically between the two agencies. Any changes made to the ICC railroad file are transferred nightly to IDOT and changes made to the IDOT railroad file are transferred nightly to ICC.

Why is Railroad Information Collected

Railroad data is collected for the following reasons:

- 1) To maintain the quality and integrity of crossing information.
- 2) To provide a systematic approach to the planning and evaluation of programs for the improvement of railroad-highway crossing safety, at both the state and federal level.
- 3) To establish linkages between railroad, roadway and structure files.
- 4) To organize railroad data for reports and special studies.

How Railroad Information is collected

Railroad information is collect by two different sources:

- 1) Railroad
- 2) State

The process of collecting railroad information involves physically inventorying each railroad crossing. This includes reporting changes, closures or abandonment's of existing crossings, and providing information for a new crossing. When a change occurs to a railroad crossing, the change is immediately reported on the 5-part U.S. DOT Crossing Inventory Form ([See Figure 1-1](#)).

Changes made on the 5-part Inventory Form must be circled to help identify what revision is being submitted. The form is then funneled through the appropriate channels so that the agencies and railroads can update their files and verify the data.

In addition, railroad data from the State can be reported using the National Railroad Crossing Form (NRC-1) ([See Figure 1-2](#)). The NRC-1 is a computer printout of information currently available for a particular crossing. For state and local agencies, various computer printouts are available on request. In order for the files to serve as an effective data base, the Department, ICC and railroads maintaining their files must report changes as they are identified.

When are IHIS Backup Files Created

Annual copies of all IHIS files are provided for historic reference. These files are prepared at the beginning of each calendar year and retained indefinitely.

Additionally, all IHIS information is copied to system backup tapes on a regular basis. These tapes are used to reload IHIS if a massive computer system failure occurs. Because information is stored on system backup tapes in computer program language, it is not readable by IHIS user programs.

Figure 1-1

U.S. DOT CROSSING INVENTORY FORM			
DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION (FRA)		OMB Control No. 2130-0017 Expires: 3/31/2003	
A. Initiating Agency <input type="checkbox"/> Railroad <input type="checkbox"/> State		B. Crossing Number (max. 7 char.)	
C. Reason for Update <input type="checkbox"/> Changes in Existing Data <input type="checkbox"/> New Crossing <input type="checkbox"/> Closed Crossing or Abandoned		D. Effective Date (MM/DD/YYYY)	
Part I: Location and Classification Information			
1. Railroad Oper. Co. (code (max. 4 char.) or name)		2. State (2 char.)	3. County (max. 20 char.)
4. Railroad Division or Region (max. 14 char.)	5. Railroad Subdivision or District (max. 14 char.)	6. Branch or Line Name (max. 13 char.)	7. RR Milepost (max. 7 char.) (mmmm.nn)
8. RR L.D. No. (max. 10 char.)	9. Nearest RR Timetable Station (max. 15 char.) (optional)	10. Parent RR (max. 4 char.) (if applicable)	11. Crossing Owner (RR or Company name) (if applicable)
12. City (max. 16 char.) (check <input type="checkbox"/> In one) <input type="checkbox"/> Near		13. Street or Road Name (max. 17 char.)	STATE SUPPLIED INFORMATION
14. Highway Type & No. (max. 7 char.)		15. ENS Sign Installed (1-800) <input type="checkbox"/> Yes <input type="checkbox"/> No	21. HSR Corridor ID (2 char.)
16. Quiet Zone <input type="checkbox"/> No <input type="checkbox"/> Partial <input type="checkbox"/> Unknown 24 hr		22. County Map Ref. No. (max. 10 char.)	
17. Crossing Type (choose one only) <input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Pedestrian	18. Crossing Position <input type="checkbox"/> At Grade <input type="checkbox"/> RR Under <input type="checkbox"/> RR Over	19. Type of Passenger Service <input type="checkbox"/> AMTRAK <input type="checkbox"/> AMTRAK & Other <input type="checkbox"/> Other <input type="checkbox"/> None	20. Average Passenger Train Count Per Day
23. Latitude (max. 10 char., mm.aaaaaa)		24. Longitude (max. 11 char., mm.aaaaaa)	
25. Lat/Long Source <input type="checkbox"/> Actual <input type="checkbox"/> Estimated			
26. Is There an Adjacent Crossing With a Separate Number? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Provide Number _____ (7 characters)			
27. PRIVATE CROSSING INFORMATION			
27.A. Category (check one) <input type="checkbox"/> Farm <input type="checkbox"/> Residential <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial		27.B. Public Access <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
27.C. Signs/Signals <input type="checkbox"/> None <input type="checkbox"/> Signs Specify (max. 15 char.) _____ <input type="checkbox"/> Signals Specify (max. 15 char.) _____			
28.A. Railroad Use (max. 20 char.)		29.A. State Use (max. 20 char.)	
28.B. Railroad Use (max. 20 char.)		29.B. State Use (max. 20 char.)	
28.C. Railroad Use (max. 20 char.)		29.C. State Use (max. 20 char.)	
28.D. Railroad Use (max. 20 char.)		29.D. State Use (max. 20 char.)	
30. Narrative (max. 100 char.)			
31. Emergency Contact (Telephone No.)		32. Railroad Contact (Telephone No.)	33. State Contact (Telephone No.)
MUST COMPLETE REMAINDER OF FORM FOR PUBLIC VEHICLE CROSSINGS AT GRADE			
Part II: Railroad Information			
1. Number of Daily Train Movements			
1.A. Total Trains	1.B. Total Switching Trains	1.C. Total Daylight Thru Trains (6 AM to 6 PM)	1.D. Check if Less Than One Movement Per Day <input type="checkbox"/>
2. Speed of Train at Crossing			
2.A. Maximum Time Table Speed (mph) _____			
2.B. Typical Speed Range Over Crossing (mph) from _____ to _____			
3. Type and Number of Tracks Main _____ Other _____ If Other, Specify (max. 10 char.) _____			
4. Does Another RR Operate a Separate Track at Crossing? <input type="checkbox"/> Yes If Yes, Specify RR (max. 16 char.) _____ <input type="checkbox"/> No		5. Does Another RR Operate Over Your Track at Crossing? <input type="checkbox"/> Yes If Yes, Specify RR (max. 16 char.) _____ <input type="checkbox"/> No	

RIS-S021 RISI9426 RISR034

***** CLOSED *****

CROSSING NBR: 346 471 X

AAR CODE: CSX - C S X TRANSPORTATION, INC.

KEY ROUTE: 9 8745 0 00.000 STATION: 0.59

ILLINOIS DEPARTMENT OF TRANSPORTATION

NATIONAL RAILROAD / HIGHWAY CROSSING INVENTORY

COUNTY/MUNI: JEFFERSON

NRC - 1

DATE 10/22/2001

CITY: MOUNT VERNON

NEAR CITY: IN

INTERCONNECT: NO

EFFECTIVE DATE: 05 / 04 / 1998

MARKED ROUTE:

STATION:

***** LOCATION AND CLASSIFICATION *****

***** TRAFFIC CONTROL DEVICES *****

DESCRIPTION	VALUE
STREET OR ROAD NAME	SHILO ROAD
HIGHWAY TYPE / NUMBER	FAU8745
ROADWAY STRUCTURE NBR	000 - 0000 000 - 0000
RR DIVISION NAME	CHICAGO
RR SUBDIVISION NAME	ST. LOUIS
RR BRANCH LINE NAME	ST. LOUIS
RR MILEPOST	411.33
RR ID NUMBER	
RR TIMETABLE STATION	395940
RR PARENT	
RR OWNER	
ENS SIGN	
QUIET ZONE	
HIGH SPEED RAIL NBR	
LATITUDE	000.0000000
LONGITUDE	0000.0000000
LAT/LONG ACTUAL OR EST	
ADJACENT XNG WITH SEP NBR	
EMERGENCY CONTACT PHONE NBR	- -
RAILROAD CONTACT PHONE NBR	- -
RAILROAD COMMENTS A	
RAILROAD COMMENTS B	
RAILROAD COMMENTS C	
RAILROAD COMMENTS D	
CROSSING TYPE	PUBLIC
POSITION	AT GRADE
PASSENGER SERVICE	
AVG PAX TRN COUNT PER DAY	000
PRIVATE CROSSING CATEGORY	
PUBLIC ACCESS	
SIGNS - DESC	0
SIGNALS - DESC	0
TOTAL TRAINS	010
TOTAL SWITCH	000
TOTAL DAY LIGHT THRU TRN	06
LESS THAN 1 A DAY NBR	0
MAX TIMETABLE SPEED	050
TYPICAL SPEED RANGE	025 - 050
NUMBER OF MAIN TRACKS	1
NUMBER OF OTHER TRACKS/DESC	00
SEP TRACK / AAR CODES	2 NO
SAME TRACK / AAR CODES	2 NO
NARRATIVE:	

DESCRIPTION	VALUE
CROSSBUCK NUMBER	00
HW STOP SIGNS NUMBER	0
ADVANCE WARNING SIGNS	1 YES
HUMP SIGNS	
OTHER SIGNS NBR / DESC	0
OTHER SIGNS NBR / DESC	0
GATES NBR	00
GATES Q4	
CANTILEVER OVER TRAFFIC NBR	0
CANTILEVER NOT OVER TRAF NBR	0
MAST MOUNTED LIGHTS NBR	2
NUMBER OF FLASHING LIGHT PAIRS	00
OTHER FLASH LIGHTS NBR / DESC	0
HWY TRAFFIC SIGNAL NBR	0
WIGWAG NUMBER	0
BELLS NUMBER	0
OTHER TRAIN WARNING DEVICES	
SPECIAL WARNING DEVICE	
CHANNELIZATION DEVICES WITH GATES	
TRAIN DETECTION	3 DC/AFO
TRACK EQUIPPED WITH TRN SIGNALS	1 YES
DEVELOPMENT TYPE	1 OPEN SPACE
SMALLEST CROSSING ANGLE	3 60-90 DEGREES
NUMBER OF TRAF LANES CROSSING RR	2
TRUCK PULLOUT LANES	2 NO
IS HIGHWAY PAVED	1 YES
HW PAVEMENT MARKINGS	
CROSSING SURFACE TYPE	2 ASPHALT
TRACK ALONG STREET	2 NO
NEARBY INTERSECTING HWY	4 N/A
IS SIGNALIZED	
IS XNG ILLUMINATED?	
COMMERCIAL POWER IND	1 YES
*** HIGHWAY INFORMATION ***	
HIGHWAY SYSTEM	03 FEDERAL AID - NOT NHS
XNG ON HIGHWAY SYSTEM	2 NO
PKD FUNCTIONAL CLASS	17 URBAN COLLECTOR
POSTED HWY SPEED	000
AADT YEAR	1996
AADT VOLUME	001400
EST % TRUCKS	00
HIGHWAY MAINTENANCE	04 MUNICIPALITY
HIGHWAY JURISDICTION	09 TWP OR RD DIST

ILLINOIS HIGHWAY INFORMATION SYSTEM

RAILROAD INFORMATION AND PROCEDURE MANUAL

ITEM NAME 1			ITEM NO. 0 2	
			PAGE 1 of 1 3	
RESPONSIBLE FOR UPDATE	PUBLIC CROSSING	PRIVATE CROSSING	PEDESTRIAN CROSSING	EFFECTIVE DATE
5	6	6	6	9/10/2001 4
FRA FORM PART & BLOCK		UPDATE SCREENS		INQUIRY SCREENS
7		8		9

DESCRIPTION AND PURPOSE OF ITEM

10

CODE AND SCREEN ENTRY INSTRUCTIONS

11

- | | |
|---|---|
| 1. ITEM NAME | - The name assigned to this data element. |
| 2. ITEM NO. | - The number assigned to this data element. |
| 3. PAGE | - The page number and total number of pages for this data element. |
| 4. EFF. DATE | - The date on which this item, as revised, became effective. |
| 5. RESPONSIBLE
FOR UPDATE | - The agency assigned responsibility for reporting this data. |
| 6. CROSSING TYPE(S) | - The crossing type(s) for which the data is applicable are: |
| 7. BLOCK AND PART | - The Block and Part elements refers to the IRRIS Item location on the U.S. DOT CROSSING INVENTORY FORM |
| 8. UPDATE SCREEN | - The name of the screen used to display this data element. |
| 9. INQUIRY SCREEN | - The name of the screen used to display this data element. |
| 10. DESCRIPTION AND
PURPOSE OF ITEM | - The data element definition, purpose and collection location or process. |
| 11. CODE AND SCREEN
ENTRY INSTRUCTIONS | - The data element format, entry instructions, codes, examples and illustrations. |